




		CAPABILITIES		
FEATURES		STANDARD	ADVANCED	REMARKS
N° of layers		1-16 Layers	Up to 40 Layers	
Board Materials		Normal FR4 (also halogen free) High TG FR4 (also halogen free) PTFE laminates Ceramic particle filled laminates Aluminium Hybrid laminating Flexible laminates polyimide film based Polyimide base laminates		there is a wide range of different types of laminate/prepreg materials from different suppliers
PCB Buildings Technology		Blind&Buried Vias, Backplane, HDI, High Multi-Layer, Backdrill, Heavy Copper Power Pcb/ Metal Substrate, Copper or Resin Filling, Impedance controlled		RIGID-FLEX and FLEX Building technology
Maximum Finished PCB size	Single layer & Double layer	500 x 600 mm	580 x 880 mm	
	Multilayer	400 x 500 mm	560 x 610 mm (530x900 with Flash Gold)	
PCB thickness	Single layer - 2 layers	0.20 - 3.20 mm	0.10 - 7.00 mm	H.A.L. 0.60 - 4.00 mm; ENIG 0.20 - 7.00 mm;
	Multilayers	0.40 - 4.50 mm	0.40 - 7.00 mm	Immersion Tin/Silver 0.40 - 5.00 mm;
	Tolerance	$\leq 1.00 \text{ mm: } \pm 0.1 \text{ mm}$ $\geq 1.00 \text{ mm: } \pm 10 \%$	$\leq 1.00 \text{ mm: } \pm 0.1 \text{ mm}$ $\geq 1.00 \text{ mm: } \pm 10 \%$	Hard Gold 0.20 - 5.00 mm
Base Copper thickness		1/3 Oz, 1/2 Oz, 1 to 3 Oz	1/3 Oz, 1/2 Oz, 1 to 10 Oz	
Surface Finish		H.A.L lead free (RoHS - Pb free), H.A.L. with Pb, Immersion gold or ENIG (RoHS), ENEPIG, Peelable solder mask Immersion Tin, Immersion Silver, Hard Gold, Hybrid Surface finish		
Solder Mask	Colors	Green, Yellow, Black, Blue, Red, White	Green, Yellow, Black, Blue, Red, White	
	Minimum width	 Base Copper $\leq 1 \text{ Oz}$: 4 mil (Green), 5 mil (other colors) Base Copper 2 Oz - 4 Oz: 6 mil		Minimum 8 mil between copper areas
Silkscreen	Colors	White, Black	White, Yellow, Black	
Finished Mechanical Hole Size		10mil - 244 mil	4 - 244 mil	
Laser Drilling Size		4 - 6 mil	4 - 6 mil	
Aspect Ratio (Mechanical THT)		10:1	20:1	Hole diameter > 8 mil
Minimum Track Width/Space		4 / 4 mil on internal layers	3 / 3 mil on internal layers	Using copper thickness 1/3 Oz, 1/2 Oz
		4 / 4 mil on external layers	3 / 3 mil on external layers	Using copper thickness 1/3 Oz
Minimum Pad size for Mechanical Drillings		18 mil	16 mil	STANDARD: Using copper thickness $\leq 1/2 \text{ Oz } \mu\text{m}$ and 10 mil drilling size ADVANCED: Using copper thickness $\leq 1/2 \text{ Oz } \mu\text{m}$ and 8 mil drilling size
Other		Impedance tolerance: $\pm 10 \%$	Impedance tolerance: $\pm 10 \%$	on special products also $\pm 5 \%$
		Pressfit hole tolerance: $\pm 2 \text{ mil}$ Z-axis routing V-CUT (scoring) Counter bore and Counter sink Chamfering/Beveling		